

ABSTRACT OF THE DISCLOSURE

A voltage-impressed current measuring apparatus, wherein the voltage from a direct-current power supply portion (220) is impressed on the terminal of a device under test (DUT) via a range switching portion (210) and the 5 current flowing in the same terminal is measured; wherein the range switching portion (210) has a plurality of current buffers with switches (CB1 to CBn) corresponding to current measurement ranges, and a plurality of current measurement resistances (R1 to Rn) respectively connected in series to the output sides of the same; and wherein the current flowing in the 10 terminal of the device under test is measured by measuring the voltage across both ends of the current measurement resistance of the selected series connection, by a voltage difference measuring portion (150). Each current buffer with switch (CBi) has an output stage (12) capable of connection / disconnection in response to a control signal.